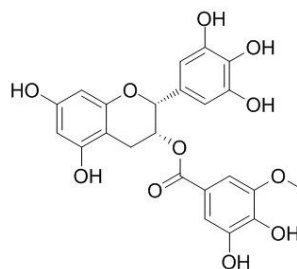


(-)-Epigallocatechin-3-(3''-O-methyl) gallate Datasheet4th Edition (Revised in July, 2016)**[Product Information]****Name:** (-)-Epigallocatechin-3-(3''-O-methyl) gallate**Catalog No.:** CFN92081**Cas No.:** 83104-87-4**Purity:** > 95%**M.F:** C₂₃H₂₀O₁₁**M.W:** 472.4**Physical Description:** Powder**Synonyms:** 3,4-Dihydroxy-5-methoxybenzoic-acid(2R,3R)-3,4-dihydro-5,7-dihydroxy-2-(3,4,5-trihydroxyphenyl)-2H-1-benzopyran-3-yl ester; Catechin E.**[Intended Use]**

1. Reference standards;
2. Pharmacological research;
3. Synthetic precursor compounds;
4. Intermediates & Fine Chemicals;
5. Others.

[Source]The leaves of *Camellia sinensis*.**[Biological Activity or Inhibitors]**

(-)-Epigallocatechin-3-(3"-O-methyl)gallate shows a strong antioxidative activity, it also has a strong cytotoxic activity.^[1]

(-)-Epigallocatechin-3-O-(3-O-methyl)-gallate has potent antiallergic activity, it can negatively regulate basophil activation through the suppression of FcεR1 expression.^[2]

(-)-Epicatechin 3-(3-O-methylgallate) has anti-inflammatory effect, it can suppress the 12-O-tetradecanoylphorbol-13-acetate (TPA)-induced inflammation of mouse ears, its activity is stronger than those of indomethacin and glycyrrhetic acid, the normally used anti-inflammatory agents. ^[3]

Epigallocatechin-3-(3"-O-methyl)gallate has the function for cold preservation of primary rat hepatocytes.^[4]

[Solvent]

Chloroform, Dichloromethane, Ethyl Acetate, DMSO, Acetone, etc.

[HPLC Method]^[5]

Mobile phase: 0.05 M H₃PO₄ - 40% Acetonitrile in 0.05 M H₃PO₄ ,gradient elution ;

Flow rate: 1.0 ml/min;

Column temperature: 30 °C;

The wave length of determination: 280 nm.

[Storage]

2-8°C, Protected from air and light, refrigerate or freeze.

[References]

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[3] Iijima T, Mohri Y, Hattori Y, *et al.* *Chem. Biodivers.*, 2009, 6(4):520-6.

[4] Kagaya N, Hara Y, Saijo R, *et al.* *J. Biosci. Bioeng.*, 2003, 96(96):559-63.

[5] Saijo R, Takeda Y. *J Jpn. Soc. Food Sci.*, 1999, 46(3):138-47.

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